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(54) CARBONACEOUS SOLID ELECTROLYTIC MATERIAL AND SOLID ELECTROLYTIC BATTERY USING IT

(57)Abstract:

PURPOSE: To obtain the light carbonaceous solid electrolytic material having excellent formability by composing the carbonaceous material of sulfonated carbonaceous material obtained by a treatment with the sulfonating agent.

CONSTITUTION: Carbonaceous material is composed of the sulfonated carbonaceous material obtained by a treatment with the sulfonating agent. Carbonaceous mesoface and (or) raw coke manufactured by a thermal treatment of pitch class, which is one of the heavy bituminous material, are desirably used as the raw material of the solid electrolyte.

Concretely, carbonaceous material as raw material is treated with the sulfonating agent such as sulfuric acid and/or fuming sulfuric acid, and the treated material is distributed in the water to be washed once with water or filtrated with a filter as it is to eliminate the residual sulfuric acid or fuming sulfuric acid, and sulfone group is led into carbonaceous mesoface. Light carbonaceous solid electrolytic material is obtained which is stabilized in the air and has excellent formability for manufacturing through a relatively simple process.

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